

David Strohmaier

✉ davidstrohmaier92@gmail.com
🌐 dstrohmaier.com 📄 🌐

Scientific Interests

- Modelling Cognitive Processes
- Deep Learning
- Bayesian Methods
- Decision Theory

Education

Starting Jan. 2023 **PhD in Computer Science**
Cambridge University

2018-19 **MPhil in Advanced Computer Science**
Cambridge University
Distinction

2015-18 **PhD in Philosophy**
University of Sheffield

2014-15 **MA in Philosophy**
University of Sheffield
Distinction

2012-14 **BA in Philosophy and Sociology**
University of Göttingen

2011-14 **BA in Sociology**
University of Göttingen

Awards & Grants

2018 Postgraduate Researcher Experience Programme

2015-2018 AHRC Competition Studentship

2015 Best Social Science BA Diss. University of Göttingen

2013 Niedersachsenstipendium

2011 Deutschlandstipendium

Selected Projects

2022 **Modelling Complexity**
Using pymc to model lexical complexity datasets

2020-21 **WSD Systems**
Multiple Word-Sense Disambiguation Systems

2018 **Adaptive Utility**
Interactive visualisation of motivational change
Technologies: Python, Jupyter notebook.

Experience

2019 – Ongoing **Research Associate** | University of Cambridge
ALTA Institute, Department of Computer Science and Technology
NLP technologies for language learning

2021 – 2022 **Supervisor: Prolog Course** | Robinson College
University of Cambridge

2016 **Internship** | Hamburg Institute for Social Research (HIS)
Supporting editorial work

2013 – 2014 **Student Assistant** | University of Göttingen

Skills

Prog. Languages	Technical Skills	Languages
Python ●●●●●	pyTorch ●●●●●	German ●●●●●
Prolog ●●●○○	spaCy ●●●●○	English ●●●●●
C++ ●○○○○	Git ●●●○○	French ●○○○○
R ●○○○○	pymc ●●○○○	Japanese ●○○○○

Publications

Books

Under Contract. Strohmaier, D., Messerli, M.. Preference Change. Cambridge University Press.

Journal Papers & Proceedings

2022 Wimmer, S., Strohmaier, D. Contrafactuals and Learnability. *Amsterdam Colloquium*.

2022 Tyen, G., Strohmaier, D. (equal contribution) A Category Theory Framework for Sense Systems. *GLOBALEX 2022 @ IREC*.

2021 Yuan, Z., Tyen, G., Strohmaier, D. Cambridge at SemEval-2021 Task 1: An Ensemble of Feature-Based and Neural Models for Lexical Complexity Prediction. *SemEval-2021*.

2021 Yuan, Z., Strohmaier, D. Cambridge at SemEval-2021 Task 2: Neural WiC-Model with Data Augmentation and Exploration of Representation. *SemEval-2021*. Model achieved best results on some tracks.

2021 Strohmaier, D. Organisation as Computing Systems. *Journal of Social Ontology*.

2021 Strohmaier, D. Ontology, Neural Networks, and the Social Sciences. *Synthese*.

2020 Strohmaier, D., Gooding, S., Taslimipoor, S., Kochmar, E. SeCoDa: Sense Complexity Dataset. *IREC 2020*.

2020 Strohmaier, D. Social-Computation-Supporting Kinds. *Canadian Journal of Philosophy*.

2020 Strohmaier, D. Two Theories of Group Agency. *Philosophical Studies*.

2018 Strohmaier, D. Group Membership and Parthood. *Journal of Social Ontology*.

Book Reviews

2021 Strohmaier, D. Review of Richard Pettigrew's "Choosing for Changing Selves". *The Philosophical Quarterly*.

2019 Strohmaier, D. Review of Richard Bradley's "Decision Theory with a Human Face". *Philosophical Psychology*.

Selected Talks

2021 Strohmaier, D. Cognitive science talk. University of Sheffield. Title: *DL4ELSA: Deep Learning for Exploring Lexical Semantic Acquisition*

2021 Strohmaier, D. Philosophy & AI Workshop. Online. University of Leeds. Title: *Ontology, Neural Networks, and the Social Sciences*.

2020 Strohmaier, D. Social Ontology. Online. Title: *Social-Computation-Supporting Kinds*.

2018 Strohmaier, D. Foundations of Utility and Risk Conference. York. Title: *Deep Cooperation*.